

FOLIO

Research Symposium an Ambitious Affair

The Graduate Students' Research Symposium 4 to 6 March will see more than 100 graduate students give 40 oral presentations and upwards of 70 poster (visual information displays) sessions on their research work.

Ian Campbell has been a central figure in the organization of the Symposium, the first of its kind on this campus. He points out that the University's 3,689 graduate students, 2,780 of whom are full-time, represent a multi-million dollar research commitment and the investment of thousands of hours of research time into subjects across the whole academic spectrum. "However, for the most part, the efforts and the kind of research which is being done by graduate students is often unknown and unrecognized outside their home departments," he says.

The Symposium, constructed on the themes "Medical, Health and Biological Sciences" (4 March), "Social Sciences, Fine Arts and Humanities"

(5 March), and "Engineering, Physical, Environmental and Earth Sciences" (6 March) should carry the day(s) (and many more in the future) in terms of showing the breadth and excellence of graduate research.

It's an ambitious project, one that owes a little something to the 1960s when a very rapid expansion of Canadian universities occurred both in student numbers and faculty. This was part of a world-wide trend largely triggered by demographic pressures and the dawning of the "Sputnik era." The course of events was such that Canada was forced to recruit large numbers of non-Canadian faculty to partly offset the dearth of suitably trained Canadian graduates. The result was a great influx of assistant professors who are now, for the most part, senior associate and full professors. Many, says Dr. Campbell, have now been in the university system for 20 years and will be retiring in increasingly large numbers in the

mid to late 1990s and early part of the next century. The line of suitable replacements, one hopes, will form on the right.

In Dr. Campbell's words: "If Canada is not to be faced with the same academic dilemma it was presented with in the 1960s, we must now concentrate on bringing new students into our graduate program and find positions for graduates who are currently in or completing their advanced degree work. These individuals are, after all, the next generation of researchers, professors and highly qualified members of society who are largely going to determine how successful this country is going to be over the next few decades."

The Symposium will get under way at 9 a.m. each day and continue until the late afternoon with a break for lunch. Admission is free and everyone is encouraged to attend. All the presentations will take place in SUB Theatre with the poster sessions being arranged in the Theatre lobby.

(With regard to the 14 February article on the Symposium (p. 3), we hasten to add that the Department of Physics should have been mentioned as being a strong contributor to the theme "Engineering, Physical, Environmental and Earth Sciences." Also, the buffet dinner on 6 March is for participants and departmental coordinators.) □

McCalla Professorships Awarded Huzinaga, Marsland, Westlake

Sigeru Huzinaga, Department of Chemistry, T.A. Marsland, Department of Computing Science, and D.W.S. Westlake, Department of Microbiology, have been awarded McCalla Professorships for 1985-86.

Dr. Huzinaga's research concerns the use of computers in chemistry; in particular, large-scale parallel processing computers. Its impact is expected to be monumental in computational chemistry, especially in the fields of design and catalysis design. Myrias Research Corporation (Edmonton) is about to produce one of the first large-scale parallel processing computers, and Dr. Huzinaga will initiate an ambitious research project in which new computational algorithms will be developed for parallel processors. It will be a joint ven-

ture between the University and industry.

Dr. Huzinaga joined the academic staff in 1959, and became a full professor in 1969. He was awarded an Alberta Achievement Award in 1982.

"Control of Overheads in Multi-processor Systems," Dr. Marsland's research project, deals with the communications aspect of computers. Research in the areas of "distributed computing" and "artificial intelligence" has led to the assumption that substantial computer power will be available in a compact form. Thus, future systems will not only be more "intelligent," but also more inter-linked.

An experimental facility developed

Continued on page two

University to Get SLRT Line in 1990

Transportation in and around the University has become a "dreadful mess" but help is on the way. Mayor Lawrence Decore told the 15 February (a date, unfortunately, that conflicted with *Folio*'s copy deadline) meeting of Senate that the southern extension of the Light Rail Transit (SLRT) system is the highest priority transportation project of the City of Edmonton. Accordingly, SLRT stations will be constructed at the Government Centre (1988) and the University (1990).

Mayor Decore, accompanied by Bob David, Manager of the City's Transportation Department, and Alderman Lance White, said the plan to

bring SLRT to campus calls for the construction of a bridge immediately west of the High Level Bridge followed by construction of an underground line on 89 Avenue between 112 and 114 Streets. The line would run south along 114 Street to a station at the Mackenzie Health Sciences Centre. The line would then move above ground at the University Avenue intersection and proceed south to the University Farm where it would end in favor of a major bus terminal.

Full details on LRT expansion and other matters discussed by Senate will appear in next week's *Folio*. □

by Dr. Marsland (currently under expansion with an NSERC equipment grant) allows for the study of problems in "virtual tree machine" architectures. With this system, software processes correspond to the computing elements and these are linked with a tree structured network of communication paths. By this means the search overhead (when one computer replicates the work of another) may be limited and improved control over work allocation is obtained. (Many times processors lie waiting for work.)

Dr. Marsland came to our University in 1970 and was appointed Professor of Computing Science in 1980.

The production of new and cheaper antibiotics is just one of the research projects Dr. Westlake will occupy himself with during the McCalla term. He and his colleagues, Alberta Heritage Medical Researcher Susan Jensen and Queen's University chemist Saul Wolfe, have discovered that

Forum to Consider Proposed Changes to Roadway

An open forum on the 114 Street Transportation Management Study will be held on 27 February at Belgrave Elementary School, 11605 74 Avenue. Plans of proposed improvements of the roadway from 89 Avenue to the University Farm will be displayed and city planners will respond to questions.

The forum will start at 7 p.m. and last about two hours. □

FOLIO

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an enzyme can be removed from a natural antibiotic producing cell and still remain active. When coupled with natural and slightly altered substrates (chemical bases), the enzymes act as catalysts, and produce antibiotics. Today, most new antibiotics are produced by chemically modifying natural antibiotics such as penicillin and tetracycline. However, the chemical modification takes many steps, costs a fortune, and may take years to develop. The new process could save time, steps and money.

Dr. Westlake is also studying the

role of microorganisms in the corrosion of metals in the oil industry. Oil pipelines are a good example. The oil within a pipeline contains water, and, consequently, microorganisms. The microorganisms attach themselves to the metal, and as a result of their growth and colonization, erosion may occur.

The study of genetic control in oil degradation by microorganisms is another interesting step in the project. Researchers are trying to determine the chemical changes in oil brought about by microbial activity. Such

changes bring about modifications in the physical characteristics of oils and could result in the conversion of a conventional crude to a heavier oil. In the third part of the project researchers are examining how they may more effectively use the abilities of oil degrading microorganisms to clean up oil spills.

Dr. Westlake has been working in this area for 15 years. He joined the University in 1958, attained the rank of Professor of Microbiology in 1966, and became Chairman of the Department in 1969. □

Myrne Nevison: EFF Distinguished Visitor

Myrne B. Nevison, Professor Emeritus at the University of British Columbia, has accepted an appointment as a Distinguished Visitor at the University of Alberta. Dr. Nevison will be visiting Edmonton and the University from 25 February to 16 March. Her visit is sponsored by the Endowment Fund for the Future; she will be hosted by the Faculty of Education and the Department of Educational Psychology.

Following graduation with a BA in Psychology from UBC, Dr. Nevison obtained her PhD from the University of Minnesota, where she worked with Gilbert Wrenn. Dr. Nevison has experience as a public school teacher, counsellor, university professor (University of Minnesota, University of Northern Colorado, and UBC) and Chairman of the Department of Counselling Psychology at UBC. She was a founding member of the Canadian Guidance and Counselling Association and served on various executive

positions with the Association, including President from 1969 to 1971. In addition, she helped found and was the first editor of the *Canadian Counsellor/Counsellier Canadien*. She has served on the advisory boards of a number of government agencies (e.g., Canadian Mental Health Association) and was an executive committee member of the International Association for Educational and Vocational Guidance.

During her visit, Dr. Nevison will present several lectures and seminars:

1) A public session: "Are schools adequately preparing children for the world of tomorrow?" (12 March, 7:30 p.m., 129 Education South.)

2) A public session for school counsellors in the Edmonton area. 3) Three staff and graduate student seminars.

Dr. Nevison will be available for consultation and discussion with others from the community and the University; she can be reached through the Department of Educational Psychology at 432-5245. □

Tenor to Sing Schubert's "Die Winterreise"

Arthur Janzen, accompanied by Irmgard Baerg, piano, will perform Franz Schubert's song cycle "Die Winterreise," 25 February at 8 p.m. in Convocation Hall.

Born in Laird, Saskatchewan, Arthur Janzen received his early vocal training in Winnipeg and Kansas. In 1967, he began studies with Theo Lindenbaum at the State Academy for Music in Detmold, Germany. In 1973, he was appointed to the Academy staff as an instructor in voice, and since that time he has divided his time between teaching and performing both in Europe and North America. Much in demand as a oratorio singer and as Evangelist in the Bach Passions, Janzen also performs frequently in recital. On his current Canadian tour, he will sing the Evangelist role in the St. John Passion at McGill University, as well as the "Winterreise" in Montreal, Winnipeg and Saskatoon. □

Irmgard Baerg has distinguished herself as soloist, accompanist and chamber musician. A native of Manitoba, she has studied in Germany and Austria, as well as at Peabody Conservatory in Baltimore with Leon Fleisher. She is a frequent performer with the Winnipeg Symphony, and records regularly with the CBC. She recently recorded Victor Davies' "Mennonite Piano Concerto" with Boris Brott and the London Symphony Orchestra. Irmgard Baerg teaches piano at the Mennonite Brethren Bible College and College of Arts in Winnipeg.

Admission to this recital is \$5 for adults, and \$3 for students and seniors. Tickets are available at the Music Department office, 3-82 Fine Arts Building, or at the door. Ample parking is available in the lot directly east of HUB Mall. □

Dickens as Artist: A Portrait by McMaster

Juliet McMaster, Professor of English, who will deliver the Edmund Kemper Broadus lectures for 1984-85, has chosen as the over-all title for her topic "The Visible World of Charles Dickens" "because," said Dr. McMaster quoting Orwell, "when Dickens has once described something, you see it for the rest of your life."

The Broadus Lectures, named in honor of the first Chairman of the Department of English, are delivered annually by a senior member of the Department of English and are open to

the public. This year they will be given on 27 February, and 1, 4, 6 and 8 March at 4 p.m. in L-3 Humanities Centre.

Dr. McMaster's first two lectures, "The Value and Significance of Flesh" and "The Story-Weaver at His Loom," will focus on Dickens' creation of characters through visual description. The remaining three, "Pickwick Papers: Virtue and Wisdom," "Bleak House: Looking on Darkness Which the Blind Do See," and "Our Mutual Friend: A Heap of Broken

Images," will explore the visual motifs that Dickens uses with calculated effect in these novels.

"Dickens is splendid from every angle," Dr. McMaster said. "He is undeniably great. Even though his books were written as serials, they are artistically planned and designed, and the motifs and images are very carefully worked out."

Stressing this aspect of his writing, *Dickens, the Designer* is the title of Dr. McMaster's next book, now being completed, to be published by Macmillan.

The author of books on Thackeray, Austen and Trollope, Dr. McMaster's

most recent book, *The Novel from Sterne to James*, was written jointly with her husband, R.D. McMaster, Professor of English at our University.

A graduate of Oxford, Dr. McMaster has an MA from the University of Alberta, and in 1965 received the first PhD in Arts ever awarded by this University. In that year she was also declared Alberta Woman Athlete of the Year for her prowess as a fencer.

The recipient of a Guggenheim Fellowship, and a McCalla Professorship, Dr. McMaster is a Fellow of the Royal Society of Canada. □

Final in Bach Organ Series Goes 2 March

The fourth and final Bach organ series recital will feature Delbert Disselhorst, Professor of Music and Chairman of the Organ Department at the University of Iowa. The concert takes place on Saturday, 2 March, at 8 p.m. in Convocation Hall. Admission is free.

Dr. Disselhorst has performed throughout Canada, U.S. and Europe, including recitals in the Cathedral of Notre Dame in Paris and appearances at international festivals and concert series in the cathedrals of Trier and Limburg and the Münster at Freiburg, Germany. He has studied under such notables as Jerald Hamilton, Mildred Andrews Boggess, Marilyn Mason, Russel Saunders, as well as

Helmut Walcha with whom he studied as the Fulbright scholar in Frankfurt am Main, Germany.

A native of Illinois, Dr. Disselhorst obtained the DMA degree from the University of Michigan and has also been awarded the Palmer Christian citation as a distinguished alumnus of the Michigan Organ department.

In this final recital, Dr. Disselhorst will be assisted by the University Concert Choir, under the direction of Leonard Ratzlaff. Choral settings by Gerhard Krapf. Dr. Disselhorst will play "Praeludium pro Organo pleno, BWV 552,1" and "Fuga à con pedale pro Organo pleno, BWV 552,2" from "Part III, Clavierubung". □



'Dance Motif '85' to Highlight Reunion

The 20th anniversary of the University's Orchesis Dance Group will take the form of a reunion, 28 February to 3 March, complete with celebrations of displays, tours and dance classes and presentations. The annual modern dance performance, "Dance Motif '85", will highlight the festivities on 1 and 2 March in SUB Theatre. Starting time is 8 p.m.

This year's production features 65 dancers, 11 choreographers and a mixture of new and old works. The variety program will have touches of humor, social comment and jazz, spiced with some interesting visual effects.

In its 20 years, Orchesis has presented about 200 original dances

by 140 different choreographers, including staff, students and other interested contributors. Some 700 dancers have had the "Orchesis experience": creating, rehearsing and performing.

Orchesis alumni are invited to participate in reunion events which will involve social events, seminars, classes, "remembering" pictures and video tapes and special presentations. In addition to outstanding returning Orchesis grads, the Department of Physical Education and Sport Studies will welcome Rose Hill from McMaster University and Anne Kipling-Brown from England as guest speakers on Aesthetics and Notation, respectively. □

Non-Academic Staff Representatives on General Faculties Council

Non-academic staff hold three appointed seats on GFC. One of these positions is reserved for members of the non-academic staff who are not members of NASA. Nominations for this vacancy must be submitted to the Assistant Secretary to GFC, Becky Hjartarson, 2-5 University Hall, by Monday, April 1, 1985. The successful nominee will serve on GFC from July 1, 1985 - June 30, 1988. Please telephone Becky Hjartarson, local 4733, for additional information.



A faulty overhead heater is to blame for the fire that broke out in the pedway between HUB Mall and the Humanities Centre 11 February. Fire Protection Officer Ray Richards said that the fault in the heater caused a section of the plastic encasement to melt and fall on to a couch, thereby igniting the fire. Damage was estimated at between \$10,000 and \$15,000; several pieces of furniture were damaged and 12 windows were broken or cracked by the heat. Repairs are under way; the pedway will remain open.

Technology Transfer Tour Planners Eying Japan

A Japan Technology Transfer Tour is being organized by Robert Armit, Research Services, James Dunn, Business, and Ron Micetich, Pharmacy and Pharmaceutical Sciences. The tour, designed for Alberta university professors, spouses and guests, includes Tokyo, Expo '85 - the World Fair and Tsakuba Science City, Nagoya and Kyoto. The dates are 18 June to 2 July 1985 (extensions may be arranged).

The objectives of the tour are "to initiate dialogue in fields of profes-

sional endeavour, to explore the culture and ideas of Japan, to open new lines of professional possibility and to enjoy the experiences of Japan together."

Further details can be obtained from Mr. Armit, 454-1022, Dr. Dunn, 435-6402, or Dr. Micetich, 467-5673, or by writing c/o P.O. Box 558, SUB 11, Edmonton, Alberta T6G 2E0.

A cooperative planning forum is set for early March. Folio will publish additional details as they become available. □

WIS Invites You

Women in Scholarship (WIS) is a new group on campus with a special focus. Its intention is to establish a network of contacts for women in areas other than science and engineering (who already get together under the auspices of WISEST—a Task Force on Women in Scholarship, Engineering and Science established by the Vice-President (Research), J. Gordin Kaplan).

The process of developing and using contacts for information, advice and moral support, networking means linking women who know each other to the women they each know, in an ever-expanding communications network, to help each other become more effective at whatever level.

The first meeting of WIS will be held Tuesday, 26 February, from noon to 2 p.m. in 034 Students' Union Building. The panel discussion on "Femininity and Career" will feature

Anne Burrows, broadcaster and musician (Alberta College); sociologist and women's rights activist Anne-Marie Decore (Faculty of Education); and Olive Yonge, practitioner, teacher and researcher (Faculty of Nursing). The meeting is open to all women interested in networking; admission is free; coffee and juice will be provided.

For more information, call Regula Qureshi (432-3908) or Christine Ens (432-4236). □

This Week's Quote

"Abandon Hopefully All Who Enter Here."

Source: Notice posted on the door of a Testing and Remediation staffer. □

people

Stancil Campbell and Gail Campbell (Drama) were recently invited to conduct workshops for FESTIVVENTION '85, the annual conference of the Rocky Mountain Theatre Association, the Utah Theatre Association, and the American Theatre Association's Region Seven College Theatre Festival. Gail Campbell presented workshops in Creative Drama and Puppetry; Stancil Campbell presented workshops on drafting and scenic rendering techniques. The conference was held 16 to 20 January in Ogden, Utah.

The Alberta Veterinary Medical Association recently established an annual award for the purpose of recognizing a member of the Association who has made an outstanding contribution to Veterinary Science during the course of his/her career. David Secord (Surgery) became the first recipient of the "Veterinarian of the Year" award at the Association's mid-winter conference in Banff.

H.P. Harrison (Agricultural Engineering) was named a 1984 Paper Award winner by the American Society of Agricultural Engineers. Professor Harrison's paper "Screen Oscillation and Aperture Size - Sliding Only," with authorship by H.P. Harrison and A. Blecha, was published in *Transactions of the ASAE* during 1983. The award was announced by ASAE President B.L. Harriott at the Annual Banquet in Knoxville, Tennessee, on 27 June 1984. Presentation of the award was made by K.W. Domier (Agricultural Engineering) on 8 February 1985. The presentation was delayed as Professor Harrison was on study leave until December 1984. A total of 370 papers were evaluated by the selection committee and only nine were selected for awards. Winners of the ASAE Paper Awards are chosen from papers of engineering merit published in any of the 12 issues of the Society's publication *Agricultural Engineering*, or in any issue of its bimonthly *Transactions of the ASAE* during the previous calendar year.

Tim Burton (Recreation and Leisure Studies) has been named as the first Visiting Fellow in Leisure Studies at the Phillip Institute of Technology in Melbourne, Victoria, Australia. Dr. Burton is currently on study leave.

publications

Green, L.C. (University Professor): *Essays on the Modern Law of War*. Transnational Publications, Dobbs Ferry, New York (1985): 320 pp. "War Crimes, Extradition and Command Responsibility." 14 *Israel Yearbook on Human Rights* (1984): pp. 17-53.

Campbell, Stancil (Drama): "Greased Lightning." In *Theatre Design & Technology*, Volume 22, Number 3 (1984): p. 15.

Holdaway, Edward A. (Institutional Research and Planning/Educational Administration): "Educational research in Canada." In John Nisbet (ed.) *World Yearbook of Education 1985: Research, Policy and Practice*. London: Kogan Page (1985): pp. 79-84.

service information

All information to be included in this column must reach the Office of Community Relations by 9 a.m. the Thursday prior to publication.

Coming Events

Lectures and Seminars

Extension

21 February, 7:30 p.m. Educational Travel Information Evening. Discussion on upcoming travel tours: In Search of the Ancient Maya-Yucatan Tour; Galapagos and Ecuador Tour; Literary Tour of England; New Mexico: The Enchanting Land; and Theatre Tour in London. Staff and resource people will make presentations and be available to answer questions. Films and/or slides will also be shown. Call 432-3034 or 432-2016 for further information.

Canadian Institute of Ukrainian Studies

22 February, 7:30 p.m. Vivian Olander, Neporany Post-doctoral Fellow, "Presbyterian Home Missions to Ukrainians as Agencies of Assimilation, 1900-1925." 265 CAB.

Law

23 February, 9:30 a.m. Saturday Morning at the Law School presents a free public legal education seminar on "Dependent Adults." 237 Law Centre.

Medicine

25 February, 12:30 p.m. G. Scott, "The Pathology of Cholecystitis." University Hospitals Amphitheatre.
26 February, 8 a.m. T. Higa, "Mortality Rounds." 2-115 Clinical Sciences Building.
27 February, 8 a.m. P. Allen, "Electrical Stimulation in the Management of Pain." University Hospitals Amphitheatre.
27 February, 8 a.m. L. Yao, "Mechanism of Polyuria Associated with Paroxysmal Atrial Tachycardia." 6-103 Clinical Sciences Building.

Boreal Circle Society

25 February, 8 p.m. "Living North—2000 A.D." A panel discussion on current conditions and future needs of Northern housing. Provincial Museum Auditorium.

Soil Science

26 February, 12:30 p.m. A. Sichinga, "Modelling the Infiltration Process." 1-103 Tory Building.

Mathematics

26 February, 3 p.m. Miklos Farkas, Distinguished Visitor, Budapest University of Technology, "Stable Oscillations in a Predator-Prey Model with Time Lag I." 657 CAB.

Anatomy

26 February, 4 p.m. Allan Dingle, McMaster University, "How Do Cells Size and Count Organelles." 6-28 Medical Sciences Building.
28 February, 11 a.m. Dr. Dingle, "Flagellar Rootlets: A New Form of Cell Contractility." Both lectures are sponsored by the Alberta Heritage Foundation for Medical Research. 5-12 Medical Sciences Building.

Clothing and Textiles

26 February, 7 to 9:30 p.m. Fashion Design Seminar on construction techniques used to control fullness—shirring, smocking and ruching. Registration fee: \$20. For further information, contact A. Lambert, 432-2528. B-16 Home Economics Building.

Sociology

27 February, noon. Andy Harrell, "Behavioural Analysis Applied to Problems of Self-Marketing." 5-15 Tory Building.

Forest Science

27 February, noon. Gregory D. Fenton, "Highlights of the Kluane National Park—Alaska Chilkat Eagle Preserve Field Trip." 3-1 Mechanical Engineering Building.
27 February, 3 p.m. William M. Cheliak, Peterawa National Forestry Institute, Canadian Forestry Service, Chalk River, Ontario, "Mating Dynamics in a Scots Pine Seed Orchard." 821 General Services Building.

Education

27 February, 3:30 p.m. Michael Rodda, McCalla Research Professor, 1983-84, "Language, Cognition and Deafness." 129 Education South.

Botany

27 February, 4 p.m. Chris Field, Carnegie Institute, Stanford University, "Carbon and Energy Exchange in Tropical Rainforest Plants: Multiple Solutions to Complex and Dynamic Habitats." M-137 Biological Sciences Building.

Edmund Kemper Broadus Lectures

27 February and 1, 4, 6, and 8 March, 4 p.m. Juliet McMaster, "The Visible World of Charles Dickens." L-3 Humanities Centre.

International Students

27 February, 7 p.m. Gordon Laxer, "Sociological View." A series of seminars on Canada. International Student Centre, 11023 90 Avenue.

Limnology and Fisheries Discussion Group

28 February, noon. Bill Tonn, "Convergence of Fish Assemblage Structure in Small Lakes of Wisconsin and Finland." G-217 Biological Sciences Building.

Gerontology

28 February, 12:30 p.m. A. Burgess, "Physical Performance of Older People." 8-14 General Services Building.

Salter Reading Series

28 February, 12:30 p.m. Sandra Birdsell will read fiction. Sponsored by the Canada Council.

Entomology

28 February, 4 p.m. Daryl Williams, "Sathon, Lathrapanteles, Female Genitalia, and Micro-gastrine Classification." TBW1 Tory Breezeway.

Zoology

1 March, 3:30 p.m. E. Zouros, Department of Biology, Dalhousie University, "Asymmetrical Hybrid Sterility and Implications for Speciation." 345 Earth Sciences Building.

Exhibitions

Ring House Gallery

Until 24 February. "Tetsuya Noda." An exhibition of Japanese prints.

Until 3 March. "Stones of Matera." A photographic study by Augusto Viggiano of an ancient dwelling site in Italy.

Films

Germanic Languages

27 February, 7:30 p.m. "Der König und sein Narr" (1981). Arts 17.

Radio and Television

Radio

All programs broadcast on CKUA radio 580 AM and 94.9 FM.

23 February, 7 p.m. "University Concert Hall" presents a faculty recital. Sharon Braun, Buenos Aires: soprano; Alexandra Munn: piano.

Television

All programs broadcast on Shaw-22 and QCTV-19.

27 February, 7:30 p.m. "Canada, the World and the Future: Why Do Children Have to Die?" Robert Fulton, Professor of Death Education and Research, University of Minnesota.

27 February, 8 p.m. "Vital Signs—Anaesthesia: Painless Surgery." To inform and educate the public about anaesthesia and the role of the anaesthetist.

Sports

Track and Field

22 and 23 February. CWUAA Championships. Pavilion.

Basketball

22 and 23 February. Panda CWUAA Championship. Varsity Gym.

23 February, 9 p.m. Golden Bears vs. University of Saskatchewan. Varsity Gym.

Matters of Faith

Catholic Campus Ministry

St. Joseph's College Mass Time, September to April. Monday, Wednesday, Friday - 7:30 a.m., 12:10 and 4:30 p.m.; Tuesday, Thursday - 7:30 a.m., 12:30 and 4:30 p.m.; Saturday, 4:30 p.m.; Sunday - 9:30 and 11 a.m., 4 and 8 p.m.

6, 13, 20 March, 7:30 p.m. Shirleyan Threndyle, The Catholic and the Bible—"Introduction to Sacred Scripture." St. Joseph's College.

Ashes to Easter—shared prayer and faith discussion, Tuesdays (26 February to 26 March) or Thursdays (28 February to 28 March), 7 to 9 p.m. St. Joseph's College, Faculty Lounge. Call Marcia, 433-2275, to register.

Anglican - United Chaplaincy

Bible Study on Gospel of John—Tuesday noon; Anglican Eucharist—Thursday noon. Both events in Meditation Room, 158A SUB.

Lutheran Campus Ministry

Sunday Worship with Eucharist - 10:30 a.m., Meditation Room.
Thursday Evening Worship - 7:30 p.m., Lutheran Student Centre, 11122 86 Avenue.
Noon Hour Bible Study - Wednesdays at noon, Meditation Room.

Faith Share

Mondays, 7 to 9 p.m. Group singing, sharing, teachings and discussions. All welcome. Contact Kim, 436-6346, or Curt, 433-9377, for further information. St. Joseph's Chapel.

Theatre

SUB Theatre

Theatre

Until 23 February, 7:30 p.m. The Edmonton Catholic Schools production of "The Sound of Music." Tickets available at all highschools, the Administration Centre and St. Anthony Teachers Centre.

1 and 2 March, 8 p.m. Orchesis, the U of A Creative Dance Club. Tickets available from members and the SU Box Office. For more information, call 432-5602.

Films

27 February, noon. "The Joy of Bach." Sponsored by the Students' Union and the Chaplains Association. Free admission.

Non-Credit Courses

Computing Services

MTS (Michigan Terminal System)

MTS and Editor Fundamentals (Prerequisite) AJ510 Operation and Visual Editing (Prerequisite) MTS Overview (Prerequisite)

TEXTFORM

Introduction to Text Formatting (Prerequisite)

SPIRES

Introduction to SPIRES (Prerequisite)
Advanced SPIRES

Graphics

Integrated Graphics Overview (IG)

Statistics

Data Preparation for Statistical Packages (Prerequisite)

Introduction to SPSSx
SPSSx Conversion
Introduction to BMDP
Introduction to MIDAS
Introduction to MINITAB
Introduction to TROLL

Microcomputers

Introduction to the IBM PC
Introduction to the Personal Editor

Introduction to MultiMate
Advanced MultiMate

The above courses are offered regularly through the day with limited evening selections. Registration will be taken over the phone for all courses except evening courses. These may be made in person at 352 General Services Building, or by mail. Payment must accompany registration for all evening courses. Please make cheques payable to the University of Alberta.

Waiting List Courses

The following courses are only offered when a sufficient number of people express an interest.

Advanced Text Formatting
Courier Operation and Visual Editing
Introduction to Plotting
Introduction to Programming
Introduction to Typesetting
Introduction to APL
Introduction to the Array Processor
Introduction to APAL

Introduction to Clustan
Introduction to TSP
Introduction to Osiris
Introduction to Tell-A-Graf

For more information on any of the courses listed above, telephone the Training Coordinator at 432-2511, between 8 a.m. and 4 p.m., weekdays.

Faculty of Extension

Certificate Programmes

For further information on the programmes listed below, telephone 432-5545 or 432-3027 between 8:30 a.m. and 4:30 p.m., Monday to Friday.

Management Development
Personnel Administration
Computers and Business Data Processing
Industrial Security Management
Purchasing Management Development
Applied Land Use Planning Certificate Programme
Public Administration Certificate (432-5052)

Citation Programme

For further information on the following programmes, telephone the number listed behind the course.

Executive Development Programme for Women (432-5545 or 432-3027)
Supervisory Development Programme (432-5066)

Land Use Planning Studies

For further information on the courses listed below, telephone 432-2912.
Regional Planning

Plans and Processes

Survey and Analysis (Field Trip)

Industrial Courses

For further information on the courses listed below, telephone 432-2912.

Corrosion Control in Steam Systems
Maintenance Management

PLATO Learning Centre

"Computer-Taught" courses can be taken any time at your convenience. For further information on this unique way of learning, telephone 432-2444
Introduction—Keyboarding, Word Processing
Excellence in Administrative Assistant/Secretarial Work
Introduction—Computers, Data Processing
Introduction to Programming—BASIC, PASCAL, FORTRAN
Time—Resource, Financial or Planning Management

Business and Professional

For further information on the courses listed below, call 432-5066. (University employees are eligible for a 25% discount on the following courses/seminars.)

Management of Personal Finances: An Investment Strategies Approach

Effective Speaking for Business and Professional People

Personnel Skills: An Overview
The Psychology of Closing Sales
Stocks, Bonds and Other Investments

Real Estate

For further information on the Winter/Spring course offerings, telephone 432-5060.

Practical Apartment Caretaking
Home Renovation and Refurbishing

Real Estate in Distress
Property Management for Apartment Caretakers

Applied Behavioral Sciences Division

For further information on the courses listed below, telephone 432-5069.

Problem Solving Excellence
Opening the Door to Creativity
Effective Counselling
Introduction to Supervision

Fitness and Lifestyle

The Spring and Summer brochure will be available soon. Call 432-2015 for further information on the courses listed below.

Fitness During Pregnancy
Shape Up After Pregnancy
Exercise Physiology and Anatomy, Level I

Devonian Botanic Garden

For a detailed brochure and registration form, telephone 987-3054.

An Introduction to Grafting and Budding I
An Introduction to Grafting and Budding II
The Home Vegetable Garden
Cattail Coil, Grasses and Reeds Basketry
Ski the DBG II

Notices

General Faculties Council

GFC's next meeting is scheduled for 25 February at 2 p.m. in the University Hall Council Chamber.

1. Approval of the Agenda
2. Approval of the Minutes of 28 January 1985

3 Question Period

4. New Members of GFC 1985-86

Reports

5. Executive Committee Reports

5.1 Executive Committee Minutes of 21 January 1985

5.2 Executive Committee Minutes of 4 February 1985

6. Report of the Board of Governors

7. Report of the Nominating Committee

New Business

8. Committee on Administrative and Professional Officers (APO Committee): Annual Report 1983-84

9. Council on Student Services (COSS): Annual Report for 1984

10. Nominating Committee Replenishment

For Information

11. Reapportionment of Teaching Faculty and Student Seats on GFC

For information concerning this agenda, or any items which may have been added to the agenda at the GFC Executive Committee meeting of 15 February, members of the University community may telephone the Assistant Secretary to GFC, 432-4733.

Scholarships, Fellowships and Awards

The University of Alberta

Alumni Association

Maimie S. Simpson Scholarship

The scholarship, to be presented for the sixth time in 1985, is in the amount of \$1,500. It will be presented to a full-time student who has attended the University of Alberta for at least two previous years. Criteria: 1) The basis for selection will be the student's contribution to campus life and to the University of Alberta community. 2) The student must have a satisfactory academic standing and plan to continue studies at the University of Alberta. Application forms and further information may be obtained from: The University of Alberta Alumni Affairs Office, 430 Athabasca Hall, telephone 432-3224. Application deadline: 15 April 1985.

University Research Support Fund Program

Donor: Environment Canada. *Where tenable:* Canada. *Level:* Graduate. *Field:* Wildlife. *Value:* Not more than \$2,500. *Number:* Not specified.

Duration: One year. Renewals can be applied for.

Conditions: The project must deal with any species of wildlife, or wildlife communities, or wildlife habitats; projects dealing with fishery resources are excluded. *Closing date:* 5 March 1985. Further information and application forms should be requested from: Student Awards Office or Canadian Wildlife Services, Ottawa, Ontario K1A 0E7.

Canadian Plains Research Travel Awards

Donor: The Canadian Plains Research Centre

Where tenable: Canada. *Level:* Not specified.

Field: Research relevant to the Canadian plains region. *Value:* Up to \$500 each. *Number:* 10.

Duration: Normally, the travel must be done by 1 December.

Conditions: The application should be a letter including: title of the research project, brief description of project or idea, statement of current status of the research, outline of travel plans (time span, origin/destination, anticipated costs, etc.), statement of how the travel will contribute to the research, indication of whether or not the research information has been entered in the CANPLAINS data base. *Closing date:* 30 March 1985. Further information and application forms should be requested from: The Director, Canadian Plains Research Centre, University of Regina, Regina, Saskatchewan S4S 0A2.

Ross C. Purse Doctoral Fellowship

Donor: The Canadian National Institute for the Blind. *Where tenable:* Canada. *Level:* Doctoral.

Field: For research and studies in the field of blindness. *Value:* At least \$7,500. *Number:* One annually.

Duration: Not specified. *Conditions:* Canadian citizens, or landed immigrants. *Closing date:* 1 April 1985. Further information and application forms should be requested from: Student Awards Office or Administrative Secretary, Ross C. Purse Doctoral Fellowship, Canadian National Institute for the Blind, 1931 Bayview Avenue, Toronto, Ontario M4G 4C8. (416) 486-2538.

Smuts Visiting Fellowship in Commonwealth Studies

Donor: Smuts Memorial Fund. *Where tenable:* Cambridge. *Level:* Graduate (members of the staff

of another university or other suitably qualified persons). **Field:** Commonwealth Studies. **Value:** Up to \$6,000. May award additional emoluments on the basis of financial and family circumstances. May also pay all or part of travel costs to Cambridge and back. **Number:** One. **Duration:** One year from 1 October 1986. **Conditions:** Fellow expected to reside in Cambridge during the major part of his appointment, pursue his research, and also participate in the teaching work of the university. Applications should include: three references, not more than two testimonials, a curriculum vitae, list of publications, details of the proposed work, and details of the applicant's probable financial resources for the period of tenure. **Closing date:** 15 March 1985. **Further information and application forms should be requested from:** Secretary of the Managers of the Smuts Memorial Fund, General Board Office, The Old Schools, Cambridge, CB2 1TT U.K.

Positions Vacant

The University of Alberta is an equal opportunity employer but, in accordance with Canadian Immigration requirements, these advertisements are directed to Canadian citizens and permanent residents.

Cafeteria Manager

The Department of Housing and Food Services requires a manager for its CAB Cafeteria. Reporting to the Food Services Officer, you will manage all aspects of the CAB Cafeteria operation, including a high quality "front of house" program as well as the preparation of a varied and nutritious menu for students and staff. You will recruit and supervise staff, purchase food ingredients, assist with budget administration and proactively control labor and food costs.

This demanding position requires an individual who has a related university degree and/or a diploma in Hotel/Restaurant Administration. We are seeking someone with a minimum of 3 years directly related experience in large, unionized, institutional food service dining operations.

CAB Cafeteria is one of the University of Alberta's largest dining rooms. It is located in the centre of the academic community and has a customer flow of approximately 10,000 per day.

The salary for this position is \$27,334 to \$41,002 per annum. The University also offers a comprehensive benefits program, including access to recreational facilities and four weeks vacation each year.

Please apply by résumé to: Department of Housing and Food Services, 4 Lister Hall, University of Alberta, Edmonton, Alberta T6G 2H6.

Senior Instructor, Department of Elementary Education

The Department of Elementary Education is seeking a senior instructor for Spring Session 1985 to teach Ed C1 533 Special Seminar: Play as Curriculum Medium, 3 to 21 June 1985.

Qualifications should include: intensive cross-sectional research on play experiences; experience in implementing play-based curriculum in programs for young children; work with in-service and pre-service teachers on the uses of play as a teaching strategy; preparation of print and visual materials related to play that can be used in teacher education institutions.

Responsibilities for instruction include the coordination of relevant laboratory experiences in a school setting. Salary at the professor level is \$2,539.

Closing date for accepting applications is 15 March 1985.

Applications accompanied by curriculum vitae and relevant scholarly papers should be sent to: Dr. P.A. McFetridge, Chairman, Department of Elementary Education, University of Alberta, Edmonton, Alberta T6G 2G5.

Non-Academic Positions

A hiring freeze was put in place 21 November 1984. This affects all Non-Academic vacancies previously advertised with the exception of positions funded from Trust/Research accounts and temporary positions.

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, 2-40 Assiniboia Hall, telephone 432-5201. Due to publication lead time and the fact that positions are filled on an on-going basis, these vacancies cannot be guaranteed beyond 15 February 1985. For a more up-to-date listing, please consult the weekly Employment Opportunities Bulletin and/or the postings in PSSR.

Positions available as of 15 February 1985.

Clerk Steno III (Part-Time/Trust) (\$647-\$813)
Biochemistry
Clerk Steno III (Term to 31 March 1985)
(\$1,294-\$1,625) Extension
Admissions Records Clerk (Trust) (\$1,294-\$1,625)
Medicine
Admissions Records Clerk (Term to 31 March 1985) (\$1,294-\$1,625) Registrar's Office
Administrative Clerk (Term to 31 March 1985)
(\$1,442-\$1,842) Extension
Technician I (Trust/Term) (\$1,497-\$1,920) Medicine
Biology Technologist I (Trust) (\$1,697-\$2,182)
Zoology
Biochemistry Technologist I (Trust)
(\$1,697-\$2,182) Cancer Research Group
Technician II (Trust/Term) (\$1,697-\$2,182) Medicine
Editorial Assistant (Trust) (\$1,766-\$2,280)
Medicine—Scientific Affairs
Programmer Analyst I (Trust) (\$1,842-\$2,378)
Educational Research Services
Technician III (Term to 31 March 1985)
(\$1,920-\$2,486) Pharmacology
Electronics Technician III (Term to 31 March 1985) (\$2,003-\$2,596) Mineral Engineering

For vacant library positions, please contact the Library Personnel Office, Basement, Cameron Library, telephone 432-3339.

Advertisements

Advertisements must reach the Editor by 3 p.m. on the Thursday prior to publication date which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 30 cents per word with no discount for subsequent insertions. There is a maximum limit of 30 words and a minimum charge of \$1.50. Contributors' corrections will be assessed at \$1.50 for each line in which an insertion is made. Advertisements cannot be accepted over the telephone. All advertisements must be paid for in full at the time of their submission.

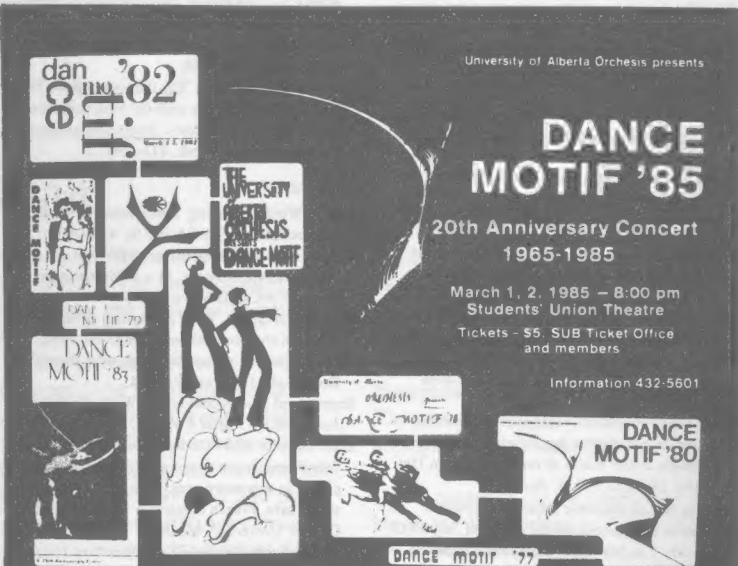
Accommodations available

Private sale - 7309 105A St. Attractive, three-bedroom bungalow. Hardwood floors. Fireplace. Brick patio. Landscaped garden. Appliances. New cedar shingles. Finished basement. Offers. 439-5318. Leave message.

Share - Luxurious, furnished townhouse, with easygoing, responsible person. \$300. 436-2950.
Rent - Park Towers, 9908 114 St. Stunning view, all amenities, best location. \$600. 488-7591 or 482-2010.

Sale - Just listed, Windsor Park, \$89,500, one-bedroom bungalow. Two bedrooms in basement.

Newer, double garage, 55x150' lot. Call John Templeton, Re/Max Real Estate, 438-1575.
Sale - Lendrum. University Farm. Quiet location. Bungalow, contemporary interior, fireplace, attached greenhouse, garden spot, double garage. Easy access to University and Hospital. New listing. Pat von Borstel, 437-6540, 436-5250. Spencer's.



Public Lecture

by
Tetsuya Noda
Japanese Print Artist

on Friday, March 1,
at 3:30 p.m.

in
**Lecture Theatre 1,
Humanities Centre,
University of Alberta,
(adjacent parking
off 90 ave. at 111 street)**

This lecture is made possible by the Japan Foundation, Tokyo, Japan, and the Consulate-General of Japan in Edmonton. It is being held in conjunction with the exhibition Contemporary Japanese Prints at the Ring House Gallery, University of Alberta, March 1 - April 14, 1985.

For further information please call 432-5834.

Contemporary Japanese Prints

Sale - Selling hilltop, contemporary house. Nine wooded acres. View overlooking islands. Privacy. Two levels, each 1,600 sq. ft. Three bedrooms. Two-car garage. Enclosed, heated pool. Near Sidney, B.C., 656-4907. \$229,000.

Rent - Sabbatical house, fully furnished. July 1985 to July 1986. Riverbend area. 437-2923 afternoons.

For sale - Lot in luxury development, 1 km east of Jasper Park gate. Gas, electricity, cable T.V., sewer. Spectacular view. 433-5939 after 6 p.m.

For rent - Garage, 11007 85 Ave. Call David, 439-5419.

Rent - University Ave. bungalow, main floor 1,200 sq. ft., two bedrooms, garage, beautiful yard and patio. \$500, available 1 April. References, damage deposit. Phone 437-8732 or 439-9733.

Accommodations wanted

If you need a dependable person to house-sit for you during your study leave, phone Jim Choles, 427-7044 (days), 433-0855 (evenings).

Furnished house, 10-23 August 1985, by University family attending meeting in Edmonton. Can exchange own home in Norfolk, Virginia, also. Contact Jan, 432-3649 (daytime), 464-4636 (evenings).

Professional woman, 29, seeks shared accommodation for 6-8 months, beginning March, or will house-sit. Prefer radius of three miles from University. Mary, 645-6313, days.

Visiting British academic requires a furnished house or apartment for the month of July 1985. Contact T.A. Marsland, Computing Science, 432-3971.

Automobiles and others

Moving, must sell second car. Single owner, two door, 1978 Nova, 65,000 km. Available 15 March. \$3,200/offers. 432-6242 weekdays.

Goods for sale

Paintings, other art: Gissing, Murray MacDonald, other Canadian artists; Japanese stencils; Chinese embroideries. Phone 433-2932.

Fresh Alberta lamb. Cut and wrapped, \$2.50/pound. 436-9238.

Books bought and sold - The Edmonton Book Store in HUB Mall will pay cash for book collections and individual, rare items. Appraisals available. Open seven days a week. 433-1781.

Services

Donnic Word Processing. Specializing in theses, manuscripts, etc. 8315A 105 St. 432-1419.

Singing teacher, Eileen Turner, 439-4661.

Quaker worship, Sundays, 11 a.m. Soroptimist Room, YWCA. 100 Ave. 103 St.

Professional typist - Word processing. Specializing in theses and dissertations. Gwen, 467-9064.

Word Processing, reasonable rates, near Bonnie Doon. Call Hanna at 469-7214.

Experienced professional typist. Work proofread. Joan, 468-1275 after 4:45 p.m.

Ecole Grandin offers Catholic education and strong French immersion program with academic emphasis, in downtown area. Also: Pre- and after-school care, French immersion pre-kindergarten. Close to University. 482-3676.

MTS Textformatted typing in all sciences (formulas) and medicine. For humanities and literature

in: English, French, German, Italian, Spanish, Latin and Greek. Gabriella, 432-4144.

JL Citation Services. Computerized literature searching by experienced scientists. Full searches, automatic updating. Search strategies carefully formulated. Max. 50 descriptors per topic. Call 487-8652.

Competent house cleaning service, licenced and insured. For information, phone 424-8490.

Piano/theory teacher, University and Parkallen areas. Vicki Kitsco, 438-0213, or leave message at 480-7004.

Word Processing, \$12/hour. Theses, manuscripts, etc. Campus or St. Albert drop-off. 458-5725 evenings.

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For more information, call Sheri or Joanne at 432-2691.

The Faculty of Dentistry's Division of Continuing Education is pleased to present the following lecture which is sponsored by the Canadian Fund for Dental Education.

The Intellectual and Moral Marks of the Professional
by

William May, Ph.D.

Joseph P. Kennedy Professor of Ethics
Georgetown University
Washington, D.C., U.S.A.

Time: 7:00 P.M. March 13th, 1985

Place: Bernard Snell Hall,
Walter Mackenzie Health Sciences Centre

For free tickets, please contact Dr. Alex Bene or Ms. Debbie Michalchuk at 432-5023.

Dr. May graduated from Princeton University in 1943 and received his Bachelor of Divinity degree (B.D.) *magna cum laude* (1952) and Ph.D. (1962) degrees from Yale University. Professor May served as the founding chairman of the Department of Religious Studies at Indiana University and as chairman of the Religion Department at Smith College, Northampton, Massachusetts. He has published essays on religion, politics and biomedical ethics and is author of *A Catalogue of Sins* (Holt, Rinehart and Winston) and a monograph on *Professional Ethics: Setting, Teacher and Terrain*. Recently he served as an author and consultant to a National Science Foundation project on the "Ethics of Field Research in Anthropology and Sociology". Dr. May received a Guggenheim Fellowship (1978-79) to work on the public obligation of the professional. Westminster Press published his book, *The Physicians Covenant: Images of the Healer in Medical Ethics* in November 1983.

**Catherine M. Fletcher, B.A.(Hon.), M.Sc., D.D.S.
Dentist**

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